

Claims

It is claimed:

1. Method for the production of gas generating mixtures from at least one nitrogenous fuel, at least one oxidizing agent and, in some cases, one or more additives,
5 characterized in that the fuel is ground together with the oxidizing agent and, in some cases, additional additives in the presence of at least one passivator, while a portion of the oxidizing agent can also work as passivator.
2. Method according to claim 1, characterized in that at least one friction agent, preferably
10 iron oxide, aluminum oxide, especially basic aluminum oxide, tin dioxide or titanium dioxide, is used as passivator.
3. Method according to claim 1 or 2, characterized in that at least one burn moderator, preferably at least one metal, metal oxide, metal carbonate or metal sulfide, is used as
15 passivator.
4. Method according to one or more of claims 1 to 3, characterized in that at least one oxidizing agent from the group, tungsten trioxide, cerium-IV oxide, ammonium cerium nitrate or luteonitrate is used as oxidizing agent.

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5. Method according to one or more of claims 1 to 4, characterized in that the percentage of the passivator in the mixture is between 1 and 15 wt.-% in the mixture.

5 6. Method according to one or more of claims 1 to 5, characterized in that the components are ground in a ball or pinned disk mill.

7. Method according to one or more of claims 1 to 6, characterized in that the components are ground to an average grain size of $<20\text{ }\mu\text{m}$, preferably to an average grain size of 10 to 15 μm .

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8. Method according to one or more of claims 1 to 7, characterized in that nitrogen-containing compounds from the group of the tetrazoles, triazoles, triazines, cyanic acid, ureas, their derivatives, derivatives or their salts or their mixtures are used as fuel.

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9. Method according to one or more of claims 1 to 8, characterized in that nitroguanidine or 5-aminotetrazole is used as fuel.

10. Method according to one or more of claims 1 to 9, characterized in that nitrates, preferably ammonium nitrate, nitrates of the alkali or alkaline earth metals, especially lithium nitrate, sodium nitrate, potassium nitrate or strontium nitrate or mixtures of these oxidizing agents, are used as oxidizing agents.

11. Method according to one or more of claims 1 to 10, characterized in that iron oxide, tungsten trioxide, cerium-IV oxide, ammonium cerium nitrate or luteonitrate or mixtures of these oxidizing agents are used.

12. Gas generating agent consisting of at least one nitrogen-containing fuel, at least one oxidizing agent, in some cases additional additives, and at least one passivator, preparable according to one or more of claims 1 to 12.

13. Gas generating agent according to claim 12, characterized in that it contains nitroguanidine as fuel, an alkali nitrate as oxidizing agent, in some cases one or more additive substances and a passivator.

14. Gas generating agent according to claim 12, characterized in that it contains nitroguanidine as fuel, an alkali nitrate as oxidizing agent, at least one additive and iron oxide as passivator.